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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO
10/801,620	03/16/2004	Rich	ard James Axe	1-25088	2917
4859	7590 05/20/2005		EXAMINER		
MACMILLAN SOBANSKI & TODD, LLC			DOERRLER, WILLIAM CHARLES		
ONE MARITIME PLAZA FOURTH FLOOR 720 WATER STREET TOLEDO, OH 43604-1619				ART UNIT	PAPER NUMBER
				3744	

DATE MAILED: 05/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		51 }
	Application No.	Applicant(s)
	10/801,620	AXE ET AL.
Office Action Summary	Examiner	Art Unit
	William C Doerrler	3744
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	rith the correspondence address
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 Clafter SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a on. a reply within the statutory minimum of thi period will apply and will expire SIX (6) MO statute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		•
1) Responsive to communication(s) filed on	•	
2a)☐ This action is FINAL . 2b)⊠	This action is non-final.	•
3) Since this application is in condition for all	lowance except for formal mat	tters, prosecution as to the merits is
closed in accordance with the practice un	der <i>Ex par</i> te Q <i>uayl</i> e, 1935 C.I	D. 11, 453 O.G. 213.
Disposition of Claims		•
4) Claim(s) 1-10 is/are pending in the application	ation.	
4a) Of the above claim(s) is/are with	hdrawn from consideration.	
5) Claim(s) is/are allowed.		
6) Claim(s) <u>1-10</u> is/are rejected.		
7) Claim(s) is/are objected to.	and/or alastian requirement	
8) Claim(s) are subject to restriction a	and/or election requirement.	
Application Papers		
9)☐ The specification is objected to by the Exa	miner.	
10)⊠ The drawing(s) filed on <u>16 March 2004</u> is/a	are: a)⊠ accepted or b)□ ot	jected to by the Examiner.
Applicant may not request that any objection to		
Replacement drawing sheet(s) including the or	·	
11)☐ The oath or declaration is objected to by the	ne Examiner. Note the attache	ed Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for for	reign priority under 35 U.S.C.	§ 119(a)-(d) or (f).
a)□ All b)□ Some * c)⊠ None of:		
1. Certified copies of the priority docu		
2. Certified copies of the priority docu		
3. ☐ Copies of the certified copies of the		n received in this National Stage
application from the International B		A management
* See the attached detailed Office action for	a list of the certified copies no	t received.
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Attachment(s)
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n 🖂	Notice of	References	Cited	(PTO-892)
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4) Interview Summary (PTO-413)
Paper No(s)/Mail Date
5) Notice of Informal Patent Application (PTO-152

6) Other: _

 ¹⁾ Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date 3-16-2004.

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DETAILED ACTION

Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Great Britain on 04/08/02, 04/24/02 and 8/16/02. It is noted, however, that applicant has not filed a certified copy of the British applications or the PCT application as required by 35 U.S.C. 119(b).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Farrington.

Farrington discloses an air cycle cooling system for an airplane which uses the exhausted cabin air to cool the compressed air in heat exchanger 102 in figure 3.

Claims 1,2,4,5,9 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Coleman et al.

Coleman et al show an air cycle cooling system which uses an intercooler 20 which cools air from the compressor using air from cabin 28 which is going to be exhausted.

Lines 3-8 of column 5 state that the avionics and cabin may be exchanged in the systems which would provide a system which uses air being exhausted by the avionics to cool the compressed air.

Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by the 2087540 British patent from the IDS.

The '540 British patent shows an air cycle cooling system which uses heat exchanger 36 to cool the air leaving the compressor using the air exhausted from cabin 43 or equipment bays 44 and 45 (which typically contain avionics). Line 22 of page 3 states that a control valve is not shown, which controls the flow of air between the cabin and equipment bay 45, establishing two modes of operation dependent on temperature as claimed in claim 7. In regard to claim 8, the first column of page 3 states that air may be fed simultaneously to both the cabin and the equipment bays.

Double Patenting

Claims 1 and 4 are rejected under the judicially created doctrine of double patenting over claims 1 and 6 of U. S. Patent No. 6,883,35 since the claims, if allowed, would improperly extend the "right to exclude" already granted in the patent.

The subject matter claimed in the instant application is fully disclosed in the patent and is covered by the patent since the patent and the application are claiming common subject matter, as follows: Both the patent and the current application claim an air cycle system which uses air being exhausted from the cabin to cool air leaving the compressor. The current claims are broader in scope than the patented claims.

Furthermore, there is no apparent reason why applicant was prevented from presenting claims corresponding to those of the instant application during prosecution of the application which matured into a patent. See *In re Schneller*, 397 F.2d 350, 158 USPQ 210 (CCPA 1968). See also MPEP § 804.

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Conclusion

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The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Agahi et al, Sampson and Clarke et al (which is commonly owned with the present application) show air cycle cooling systems with cooling means for the compressed air.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William C Doerrler whose telephone number is (571) 272-4807. The examiner can normally be reached on Monday-Friday 6:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Denise Esquivel can be reached on (571) 272-4808. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Primary Examiner Art Unit 3744